

APPENDIX B

CLAIMS PENDING UPON ENTRY OF THE PRESENT AMENDMENT (filed February 12, 2002) U.S. PATENT APPLICATION SERIAL NO. 09/025,143

1. (Twice Amended) A computer system for retrieving object interface information comprising one or more software objects encoded in computer readable form, said one or more objects having at least one interface defined in a first notation, said one or more objects encapsulating object interface information specified in a second notation without translating the object interface information specified in the second notation into the first notation, said second notation being different from said first notation.

2. The system of claim 1, wherein said first notation comprises CORBA IDL.

3. The system of claim 1, wherein said second notation comprises ASN.1.

4. The system of claim 1, wherein said second notation comprises GDMO.

5. The system of claim 1, said system further comprising an metadata repository.

6. The system of claim 5, said system further comprising a dynamic gateway for manipulating objects defined at least in part in said second notation by means of invocations on interfaces defined in said first notation.

7. (Twice Amended) A method for accessing object interface information stored in one or more software objects residing in computer memory, comprising the steps of invoking said one or more objects by means of at least one interface specified in a first notation, said one or more object returning in response to said invocation object interface information specified in a second notation without translating the object definition specified in the second notation into the first notation.

8. The method of claim 7, wherein said first notation comprises CORBA IDL.

9. The method of claim 7, wherein said second notation comprises ASN.1.

10. The system of claim 7, wherein said second notation comprises GDMO.

11. (Twice Amended) A computer readable medium comprising digital data, said digital data further comprising one or more computer programs for storing object interface information comprising a parser for object interface information, an object factory for instantiating objects encapsulating said object interface information, said objects having pre-defined interfaces without translating the object definition information.

12. The system of claim 11, wherein said objects have interfaces defined in CORBA IDL.

13. The system of claim 12, further comprising a CORBA server utilizing the CORBA Dynamic Skeleton Interface.

14. The system of claim 11, wherein said objects encapsulate ASN.1 object definition information.

15. The system of claim 11, wherein said objects encapsulate GDMO object definition information.

16. The system of claim 12, further comprising a root encapsulator object for resolving object definition name information into an object reference for an encapsulator object corresponding to an object definition type.

17. (Amended) A computer readable medium comprising digital data, said digital data further comprising one or more software objects comprising at least one interface defined in a first notation for manipulating an object having an interface at least partially defined in a second notation without translating the at least partial definition from the second notation into the first notation, said second notation being different from said first notation.

18. The software object of claim 17, wherein said first notation comprises

CORBA IDL.

19. The software object of claim 18, wherein said second notation comprises ASN.1.

20. The software object of claim 17, wherein said second notation comprises GDMO.

21. A method of constructing an object invocation comprising the steps of:
instantiating an object collection of objects corresponding to rules specifying the syntax of said object invocation;
receiving information of the content of the object invocation; and
interrogating the object collection with the information to determine a set of objects sufficient to construct the invocation without translating the information into the syntax of the object invocation.